

Notice of Allowability

Application No.

10/601,266

Examiner

Daniell L. Negrón

Applicant(s)

SAIKAWA ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to response filed 7 September 2006.
2. ☒ The allowed claim(s) is/are 1-6 and 10-17 (to be renumbered 1-15).
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

WAYNE YOUNG
SUPERVISORY PATENT EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 1-6 and 10-18 (to be renumbered 1-15) are allowed.
2. The following is an examiner's statement of reasons for allowance:

Regarding claims 1-3, claim 1 discloses a data storage device, wherein a pitch of a plurality of servo tracks is varied in the radial direction of the disk-shaped storage medium, and a read write offset value is thereby set equivalent to an integer number N of the servo tracks, the read write offset value being a deviation amount between the write and read heads in a radial direction of the disk-shaped storage medium, the deviation amount being caused by swinging of a head slider by a rotary-type actuator, which is neither disclosed or an obvious variation of the prior art.

Regarding claim 4, claim 4 discloses a data storage device, wherein a read write offset value is set equivalent to an integer number N of the servo tracks, the read write offset value being a deviation amount between the write and read heads in a radial direction of a disk-shaped storage medium, the deviation amount being caused by swinging of a head slider by a rotary-type actuator, wherein the integer number N increases stepwise from an inner diameter toward an outer diameter of the disk-shaped storage medium, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 5 and 6, claim 5 discloses a data storage device, wherein a read write offset value is set equivalent to an integer number N of the servo tracks, the read write offset value being a deviation amount between the write and read heads in a radial direction of a disk-

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shaped storage medium, the deviation amount being caused by swinging of a head slider by a rotary-type actuator, wherein the write and read heads are positioned within a region where an error signal obtained from the servo information is linear, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 10, 11, and 16-18, claim 10 discloses a servo information writing method including the step of writing a servo burst pattern so that the measured read write offset value is equivalent to an integer number N of servo tracks formed by the burst pattern, wherein the burst pattern is written so that a pitch of the servo tracks varies at a predetermined variation ratio in the radial direction of the disk-shaped storage medium, which is neither disclosed or an obvious variation of the prior art.

Regarding claims 12-15, claim 12, discloses a servo information writing method including the step of writing a servo burst pattern so that the measured read write offset value is equivalent to an integer number N of servo tracks formed by the burst pattern, wherein a pitch of the servo tracks is varied in relation to a predetermined pitch as a standard.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniell L. Negrón whose telephone number is 571-272-7559. The examiner can normally be reached on Monday-Friday (8:30am-5:00pm).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wayne R. Young can be reached on 571-272-7582. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

DLN 
September 11, 2006


WAYNE YOUNG
SUPERVISORY PATENT EXAMINER